

Atlantic Boulevard / I-710 Corridor Advanced Traffic Management System Improvement Project

**Gateway Cities Public Works Officers
Traffic Signal Synchronization Subcommittee
September 16, 2004**



Agenda

- Review of overall project
- Project status
- Results of stakeholders' objectives analysis
- Next steps

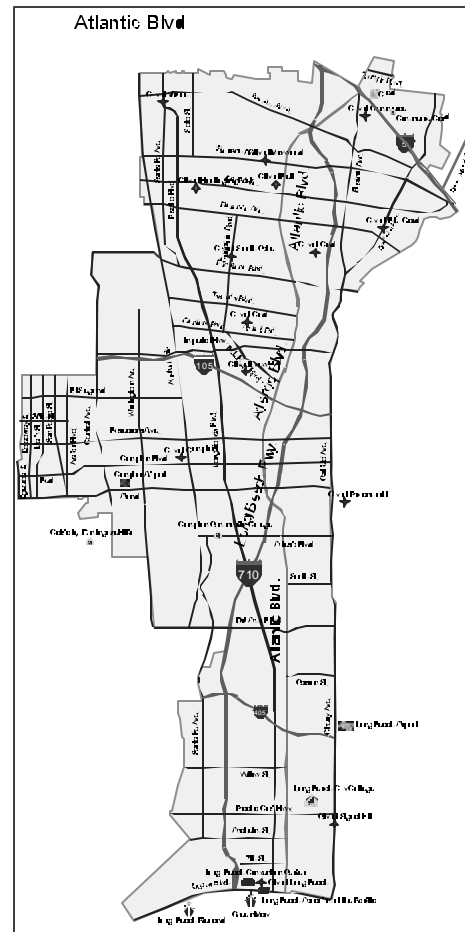




Atlantic Boulevard / I-710 Corridor ATMS Project



Project Area



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Project Objectives

- Provide full access to an ATMS to all agencies in the corridor for monitoring and control of their signals
- Ability to synchronize signals across jurisdictional boundaries
- Allow for exchange of real-time traffic information





Project Elements

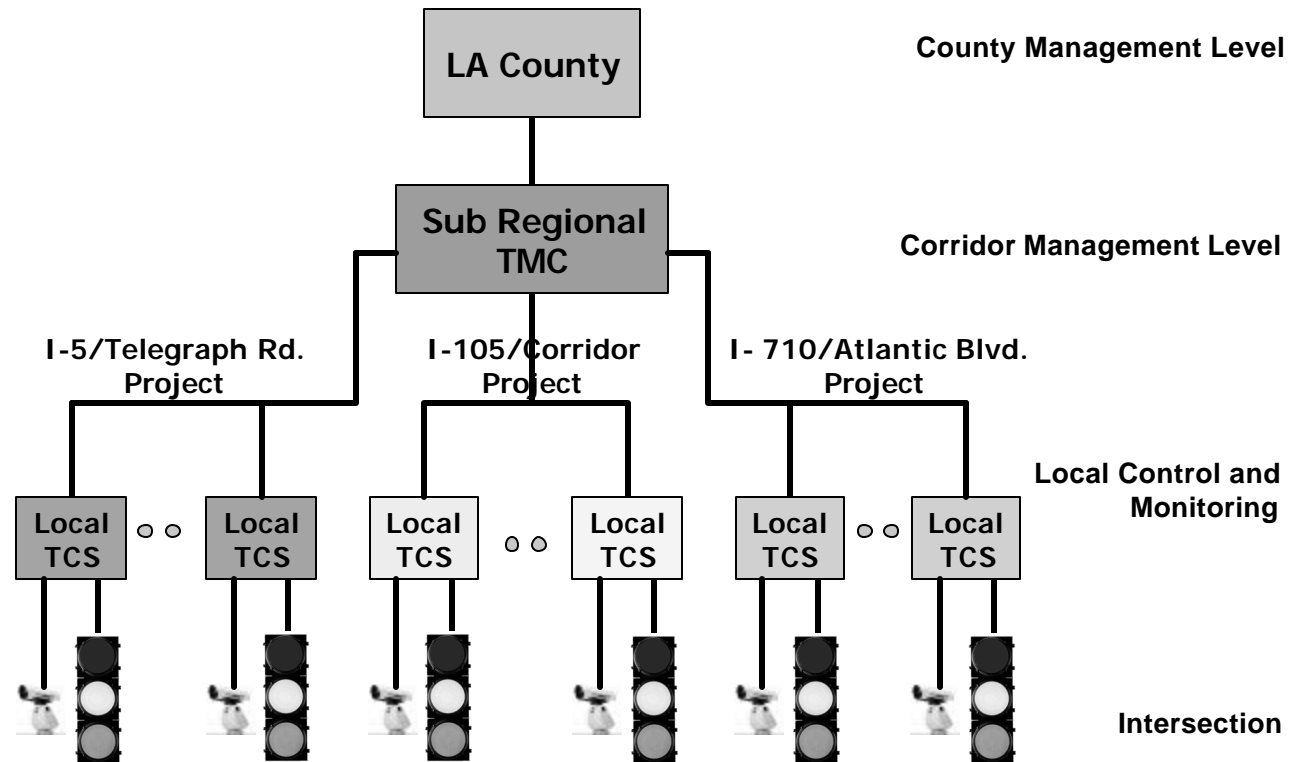
- ATMS(s) for local signal control and monitoring
 - Traffic control systems
 - System detection
 - Closed circuit television cameras
- Establishment of local control centers at each jurisdiction
- Integration with IEN
- Communications (for both data and video)
 - Field to center (intersections to LCC)
 - Center to center (LCC to County TMC)

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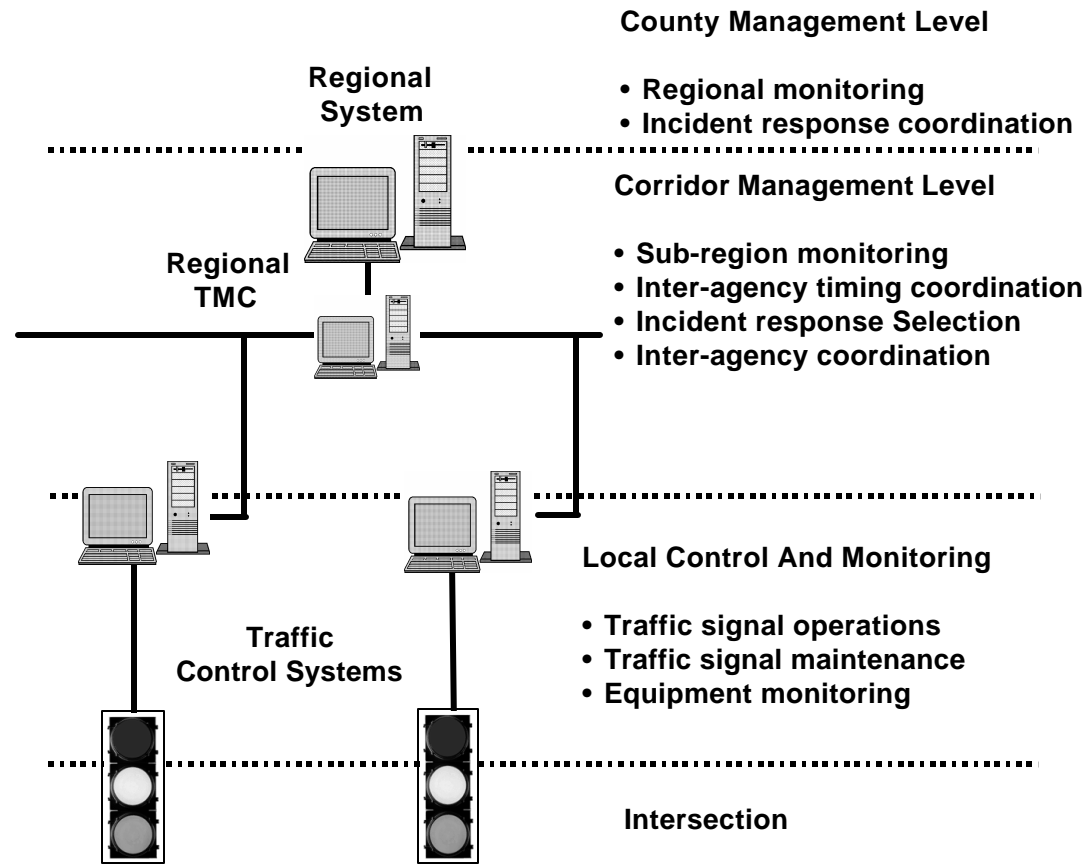


Relationship With Other Projects





Project Focus



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Project Status

- Web Page ————— In-Progress
- Agency Interviews ————— Complete
- Field Surveys ————— In-Progress
- Operational Objectives ————— Report Submitted
for Review
- Concept of Operations ————— In-Progress



Stakeholders Objectives Analysis

- Agencies Interviewed

- Bell
- Commerce
- Compton
- Cudahy
- Huntington Park
- Long Beach
- Lynwood
- Maywood
- Paramount
- South Gate
- Vernon
- County

Bell Gardens – To be Interviewed

Signal Hill – Long Beach representing their interests

Caltrans – No routes in the project area, will not be interviewed at this time.



Agency Analysis

Controllers

- Agencies with Type 170 controllers
 - Bell, Commerce, Cudahy, Huntington Park, Long Beach, Lynwood, Maywood, Paramount, County

Want to Continue Using Type 170 Controllers

- Agencies with Econolite controllers
 - Compton, South Gate, Vernon

Want to Continue Using Econolite Controllers

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Agency Analysis Detection

- Most agencies prefer to use loops in general
- Video detection preferred in some instances
- Advanced detection present on TSSP routes
- Cities wish to install more detection for traffic monitoring purposes





Agency Analysis Communications

- Little interconnect in the project area except in the cities of Long Beach, and Commerce and along some intersections in the cities of South Gate and Vernon
- Cities open to installing leased lines and wireless media





Agency Analysis

Signal Operations and Maintenance

- In-house
 - Compton, Huntington Park, Long Beach, Lynwood, South Gate, County
- Contract to PEEK SMI
 - Bell, Commerce, Cudahy, Maywood, Vernon
- Contract to another agency
 - Paramount (to Santa Fe Springs)
 - Signal Hill (to Long Beach)





Agency Analysis

Traffic Control Systems

- Existing
 - South Gate ARIES, i2
 - Vernon ARIES
 - Long Beach QuicNet IV
- Planned
 - County KITS
 - Compton TBD
 - Commerce Upgrade under I-5
 - Paramount Client workstation installation under I-105

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Agency Analysis

Traffic Control Systems – Agency Preference

Agency	Local	Host	Client
Bell		X	X
Commerce	X		
Compton		X	
Cudahy			X
Huntington Park	X		
Long Beach	X		
Lynwood	X		
Maywood			X
Paramount			X
South Gate	X		
Vernon	X		
County		X	

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Traffic Control Systems

Preliminary Recommendations

Agency	TCS	Recommendation
Bell	Client	Provide workstation
Commerce	Local	Connect intersections to QuicNet IV
Compton	Local	System to be deployed by the City
Cudahy	Client	Connect intersections to County system
Huntington Park	Local	Install new system
Long Beach	Local	No upgrades required
Lynwood	Local	Install new system
Maywood	Client	Connect intersections to County system
Paramount	Client	Connect intersection to SFS system
South Gate	Local	Connect intersections to i2
Vernon	Local	Upgrade system
County	Host	Connect intersections to County system

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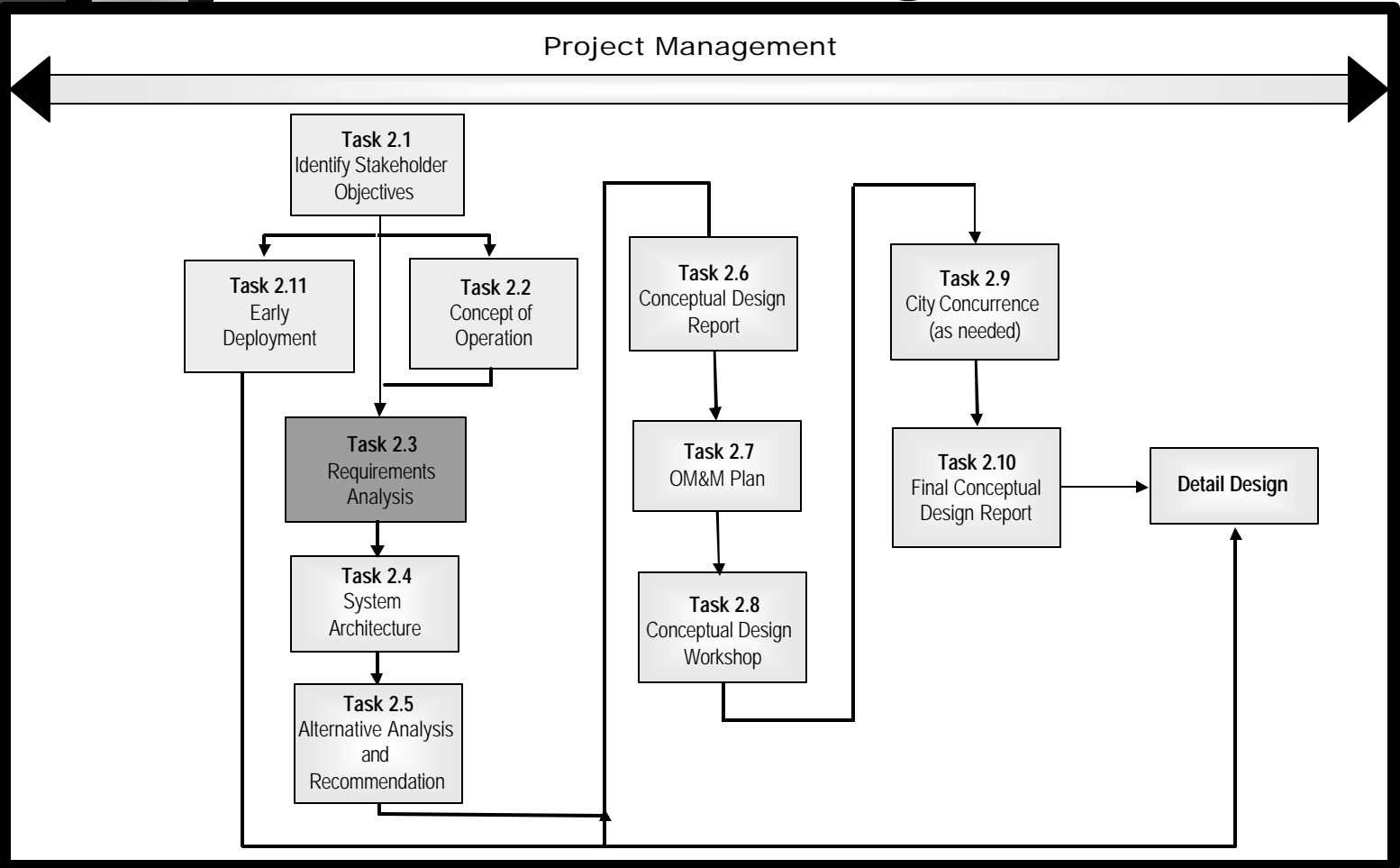
Agency Analysis

- All agencies interested in deploying IEN interface
- All agencies supportive of sharing data with other agencies in the region
- Most agencies want to deploy CCTV cameras for surveillance purposes





Work Flow Diagram





Next Steps

- Complete project web site
- Complete and submit system inventory
- Complete and submit concept of operations
- Start work on identifying early deployment projects
- Start work on requirement analysis task